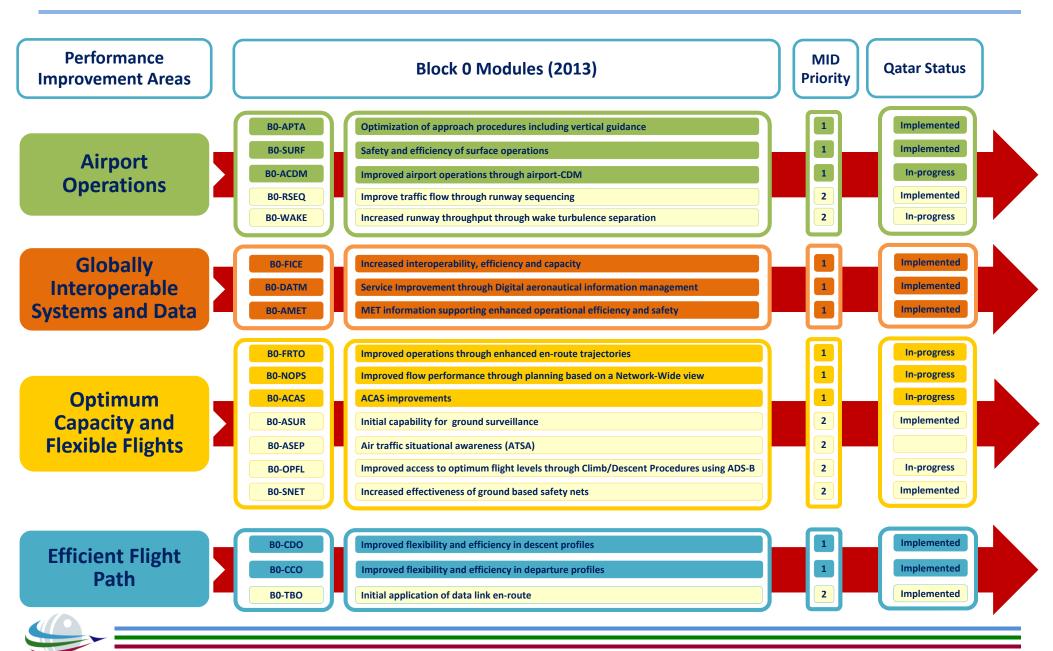
# Aviation System Block Upgrade (ASBU)

Qatar - Block 0 Implementation



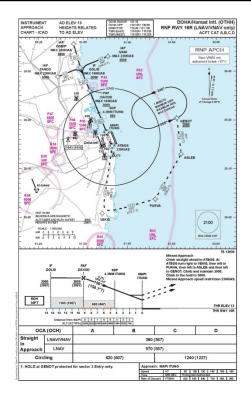
## **ASBU Block 0 Modules**

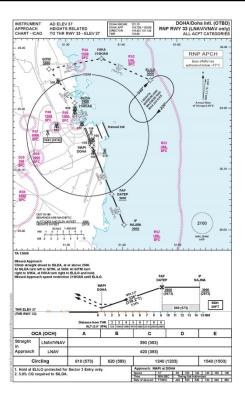


## **Airport Operations**

## • (B0-APTA) Optimization of approach procedures including vertical guidance

Aerodrome Location Indicator		Pre	cision				
/Name	RWY	ILS	CAT	VOR or NDB	LNAV	LNAV / VNAV	
OTHH/Hamad Intl. Airport	16L	ILS	1/11/111	VORDME	Implemented	Implemented	
	16R	ILS	1/11/111	VORDME	Implemented	Implemented	
	34L	ILS	1/11/111	VORDME	Implemented	Implemented	
	34R	ILS	1/11/111	VORDME	Implemented	Implemented	
OTBD/Doha Intl. Airport	15	ILS	1	VORDME	Implemented	Not applicable	
	33	ILS	1/11/111	VORDME, NDB	Implemented	Implemented	





## **Airport Operations**

• (B0-SURF) Safety and efficiency of surface operations

Aerodrome Location Indicator /Name	A-SMGCS (Level 1)	A-SMGCS (Level 2)
OTHH/Hamad Intl. Airport	Implemented	Implemented
OTBD/Doha Intl. Airport	Implemented	Implemented



## **Airport Operations**

#### • (B0-ACDM) Improved airport operations through airport-CDM

Aerodrome Location Indicator /Name	Apron Management	ATM-Aerodrome Coordination	Technical & runway capacity declared
OTHH/Hamad Intl. Airport	Partially Implemented	Not Implemented	Not Implemented
OTBD/Doha Intl. Airport	Partially Implemented	Not Implemented	Not Implemented



## **Airport Operations**

• (B0-RSEQ) Improve traffic flow through runway sequencing

Aerodrome Location Indicator /Name	Arrival Manager (AMAN)	Departure Manager (AMAN)
OTHH/Hamad Intl. Airport	Implemented	Implemented
OTBD/Doha Intl. Airport	Implemented	Implemented



## **Globally Interoperable Systems and Data**

• (B0-FICE) Increased interoperability, efficiency and capacity

AMHS Capability	AMHS Interconnection	AIDC/OLDI Capability	AIDC/OLDI Implementation
Implemented	Implemented	Implemented	Implemented (local implementation for OLDI)



## **Globally Interoperable Systems and Data**

• (B0-DATM) Service Improvement through Digital aeronautical information management

B0-DATM-3-1 Provision of AIS/AIM products and services based on the Integrated Aeronautical Information Database (IAID)							
IAID	AIP	NOTAM	PIB	Charting	Procedure Design	ATS	
Partially Implemented	Partially compliant	Fully compliant	Fully compliant	Partially compliant	Partially Implemented	Not Implemented	

B0-DATM-3-2 Aeronautical Data Quality							
QMS	Establishment of formal agreements	Digital data exchange with originators	Metadata	Data quality monitoring	Data integrity monitoring	AIRAC adherence	
Fully compliant	Fully compliant	Partially Implemented	Fully compliant	Fully compliant	Fully compliant	Fully compliant	

B0-DATM-3-3 World Geodetic System-1984 (WGS-84)						
FIR/ENR	FIR/ENR Terminal AD GUND					
Fully compliant	Fully compliant Fully compliant Fully compliant					

B0-DATM-3-4-1 Provision of Terrain and Obstacle data sets for Areas 1 and 4						
Terrain data sets (Area 1)	Terrain data sets (Area 4)	Obstacle data sets (Area 1)	Obstacle data sets (Area 4)			
Fully compliant	Fully compliant Fully compliant Fully compliant					

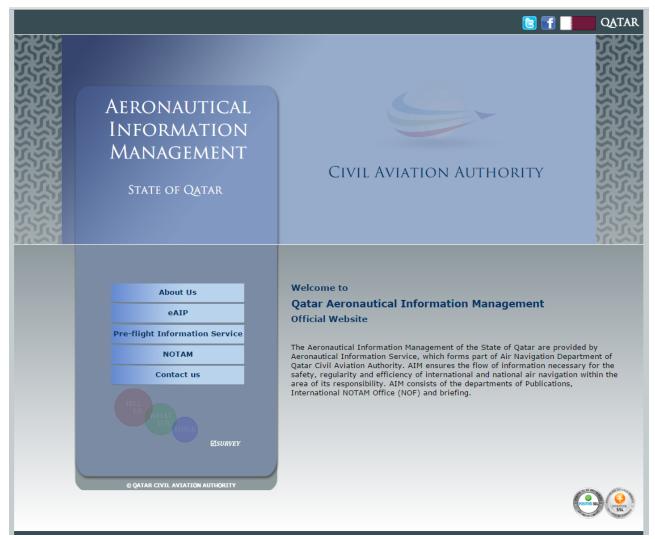
B0-DATM-3-4-2 Provision of Terrain and Obstacle data sets for Areas 2							
Terrain data sets				Obstacle data sets			
(Area 2a)	(Area 2b)	(Area 2c)	(Area 2d)	(Area 2a)	(Area 2b)	(Area 2c)	(Area 2d)
Fully compliant	Fully compliant	Fully compliant	Fully compliant	Fully compliant	Fully compliant	Fully compliant	Fully compliant

B0-DATM-3-4-3 Provision of Terrain and Obstacle data sets for Areas 3					
Terrain data sets (Area 3) Obstacle data sets (Area 3) AMDB					
Not implemented	Fully implemented Partially implemented				



## **Globally Interoperable Systems and Data**

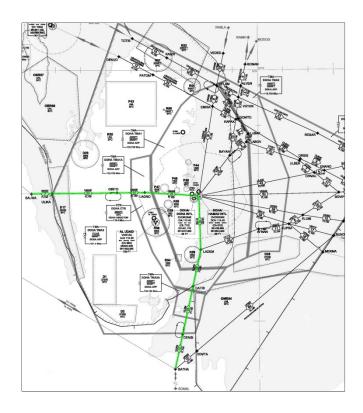
(B0-DATM) Service Improvement through Digital aeronautical information management



## **Optimum Capacity and Flexible Flights**

• (B0-FRTO) Improved operations through enhanced en-route trajectories

FUA Implemented	Total number of ATS Routes	Total number of required routes to be implemented through segregated Areas	Number of routes that are NOT implemented due military restrictions (segregated areas)
Partially Implemented	21	2 (M430/L564) – Time route	0



## **Optimum Capacity and Flexible Flights**

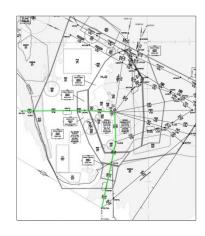
(B0-SNET) Increased effectiveness of ground based safety nets



## **Efficient Flight Path**

#### • (B0-CDO) Improved flexibility and efficiency in descent profiles

Aerodrome Location Indicator /Name	RWY	RNAV STAR	CDO
OTHH/Hamad Intl. Airport	16L	Implemented	Tactically achieved
	16R	Implemented	Tactically achieved
	34L	Implemented	Tactically achieved
	34R	Implemented	Tactically achieved
OTBD/Doha Intl. Airport	15	Implemented	Tactically achieved
	33	Implemented	Tactically achieved



## • (B0-CCO) Improved flexibility and efficiency in departure profiles

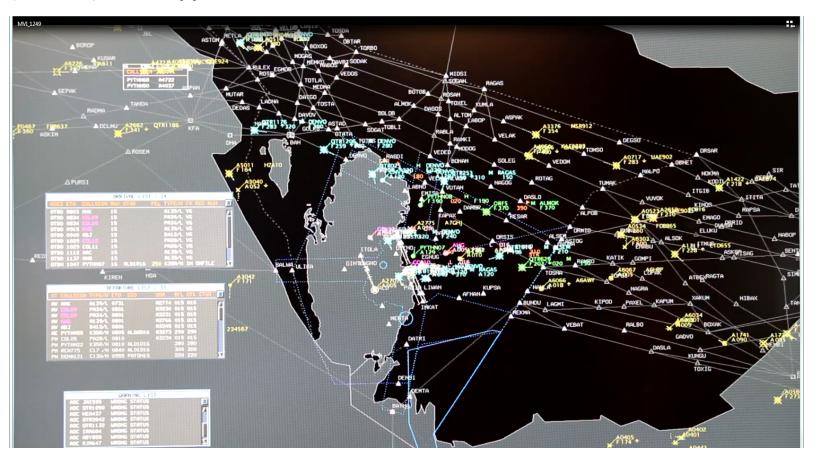
Aerodrome Location Indicator/Name	RWY	RNAV SID	ссо
OTHH/Hamad Intl. Airport	16L	Implemented	Tactically achieved
	16R	Implemented	Tactically achieved
	34L	Implemented	Implemented
	34R	Implemented	Tactically achieved
OTBD/Doha Intl. Airport	15	Implemented	Tactically achieved
	33	Implemented	Tactically achieved





## **Efficient Flight Path**

• (B0-TBO) Initial application of data link en-route



## THANK YOU